CLAIMS:

1. A method of authentication, particularly in home networks, between a network-internal apparatus (21 to 25) and a wireless network-external apparatus (3), wherein the authentication is based on a comparison of the values of both apparatuses, which values result from their separate measurements of at least one predefined ambient parameter.

2. A method of authentication, particularly in home networks, between a network-internal apparatus (21 to 25) and a wireless network-external apparatus (3), wherein the required configuration data are sent from the network internal apparatus (21 to 25) to the wireless network-external apparatus (3) in an encrypted manner and wherein the encryption is based on the values of measured, predefined ambient parameters.

3. A method as claimed in claim 1, characterized in that the measured values are exchanged between the network-internal apparatus (21 to 25) and the network-external apparatus (3) in an encrypted manner by means of pre-exchanged "public keys".

4. A method as claimed in any one of claims 1 to 3, characterized in that the ambient parameters consist of acoustic and/or optical signals generated by the network-internal apparatus (21 to 25).

5. A method as claimed in any one of claims 1 to 4, characterized in that ambient parameters which change upon each request by the network-internal apparatus (21 to 25) are defined.

6. A method as claimed in any one of claims 1 to 5, characterized in that the defined ambient parameters have time-dynamic values.

7. A method as claimed in any one of claims 1 to 6, characterized in that the network-internal apparatus (21 to 25) is an access point.